Psiber Data
WireXpert & eXport

User Guide
List Based Testing

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Chapter 1 - Introduction

Please ensure Psiber Data eXport and firmware v6.2 and above has been installed into you workstation and WireXpert devices before you proceed further. Please visit http://www.psiberdata.com/ to download the latest version.

Developed by Psiber Data, List-Based Testing (LBT) is the world first to adopt customized hierarchical cable labelling scheme. LBT changes how cable testing are conducted, from entering and saving a label after each test to simply choosing which label from the preloaded list to conduct the test.

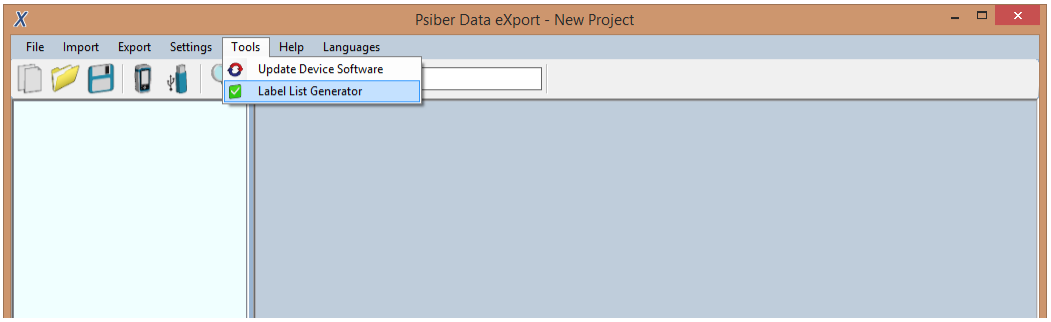
The LBT is ideal for project managers who has preference on how cables should be labelled and creates flexibility for onsite testers to conduct test in non-sequential order by choosing, skipping and returning to the untested points. When the site is completed, the project managers does minimal sorting and searching from his/her preferred list, saving time thus increasing productivity.

This user guide will only contain information and instructions on how to use the List-Based Testing on eXport software and WireXpert. Please refer to User Manual and Guides for WireXpert for device help.

Chapter 2 – Creating the List

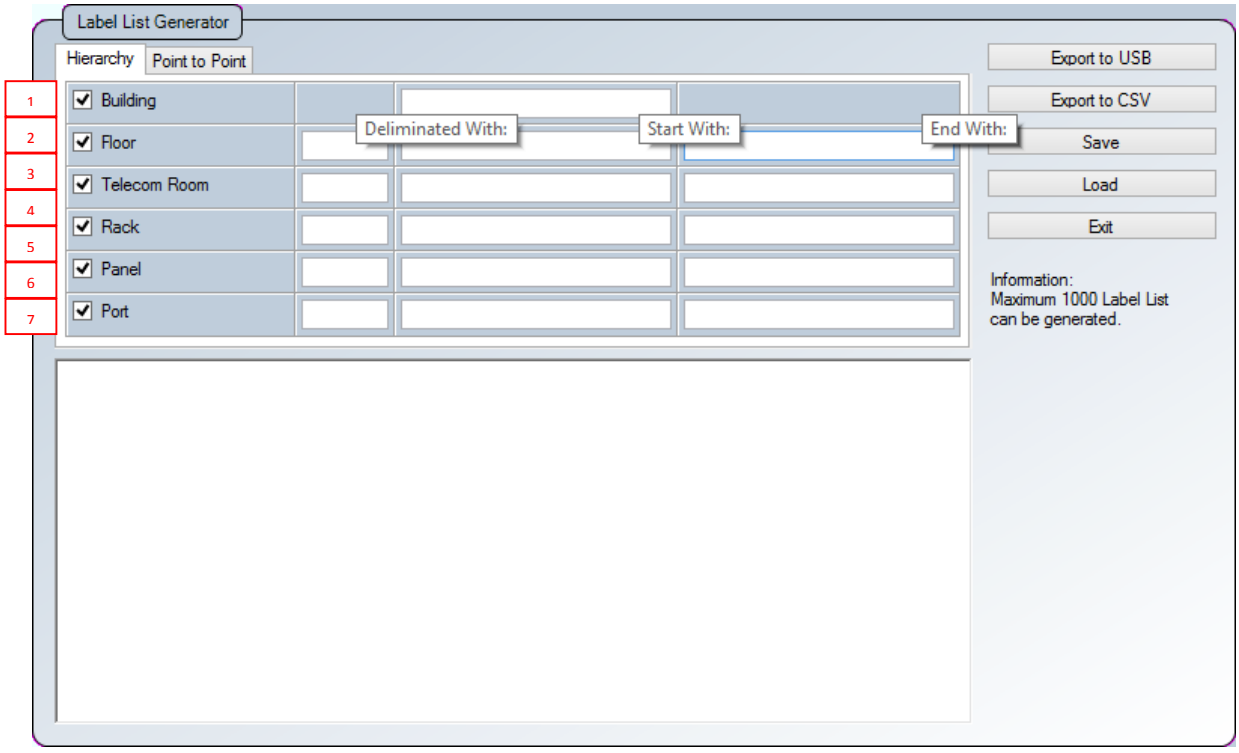
Label List Generator

1. Launch eXport software.
2. Go to Tools > Label List Generator



Hierarchy

Besides Building name, each tier of hierarchy labelling can be delimited or text separated with alphanumeric characters such as " - ", " ; ", " <>", etc in the "Delimitated With" field. The first unit (floor/room/rack/panel/port) of each tier should be entered in the "Start With" field and the last in the "End With" field. If a certain tier is not applicable, eg, the building has only one floor, uncheck "Floor" to remove tier from hierarchy.



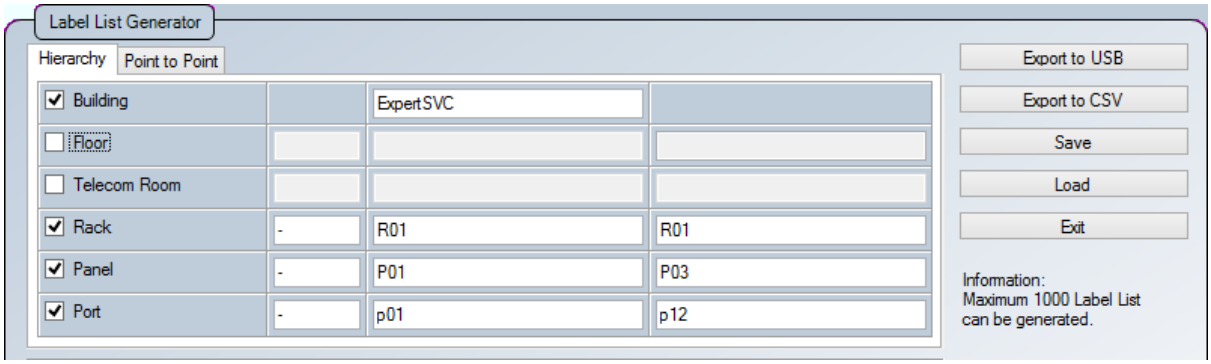
1. Building – The building name where LBT will be used.
2. Floor – The number of floors the building has.
3. Telecom Room – The number or name the telecom name is called.
4. Rack – The number or name the rack is called.
5. Panel – The number or name the panel is called.
6. Port – The number or name the port is called.

Note: Hierarchical tiers (Floors, Telecom Rooms, Racks, Panels and Ports) must be entered in corresponding formats (eg. 01 and 10, B1 and B3, -1 and -4, 1# and 5#) to generate labels. Only alphanumeric and ASCII characters are supported for List-Based Testing.

Scenario 1

Expert Services occupies a single floor in an office building, with only 1 Rack(R) and 3 Panels(P) in 1 Server room. Only 12 ports(p) are used from each panel. They have plans to add another Rack in the near future.

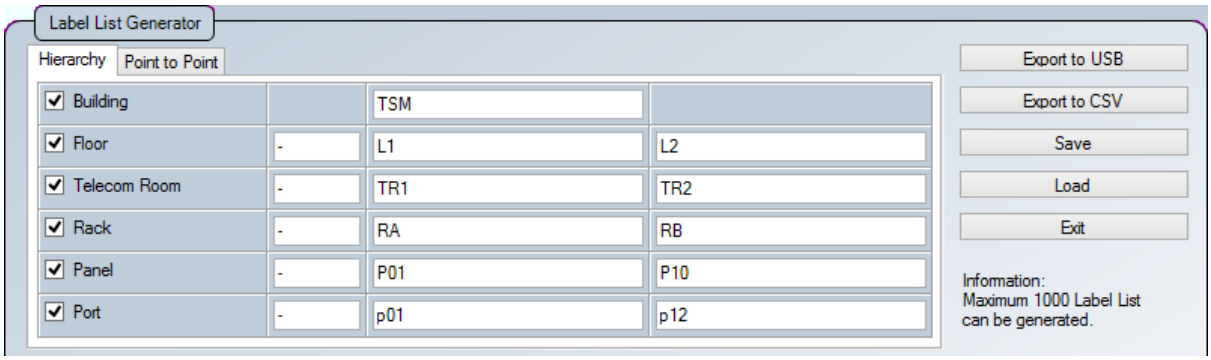
Building	**Floor**		**Telecom Room**		**Rack**		**Panel**		**Port**		**Labels Generated**
E-SVC	n.a	n.a	n.a	n.a	R01	R01	P01	P03	p01	p12	E-SVC-R01-P01-p01 ~ p12 E-SVC-R01-P02-p01 ~ p12 E-SVC-R01-P03-p01 ~ p12
Total number of labels generated											36



Scenario 2

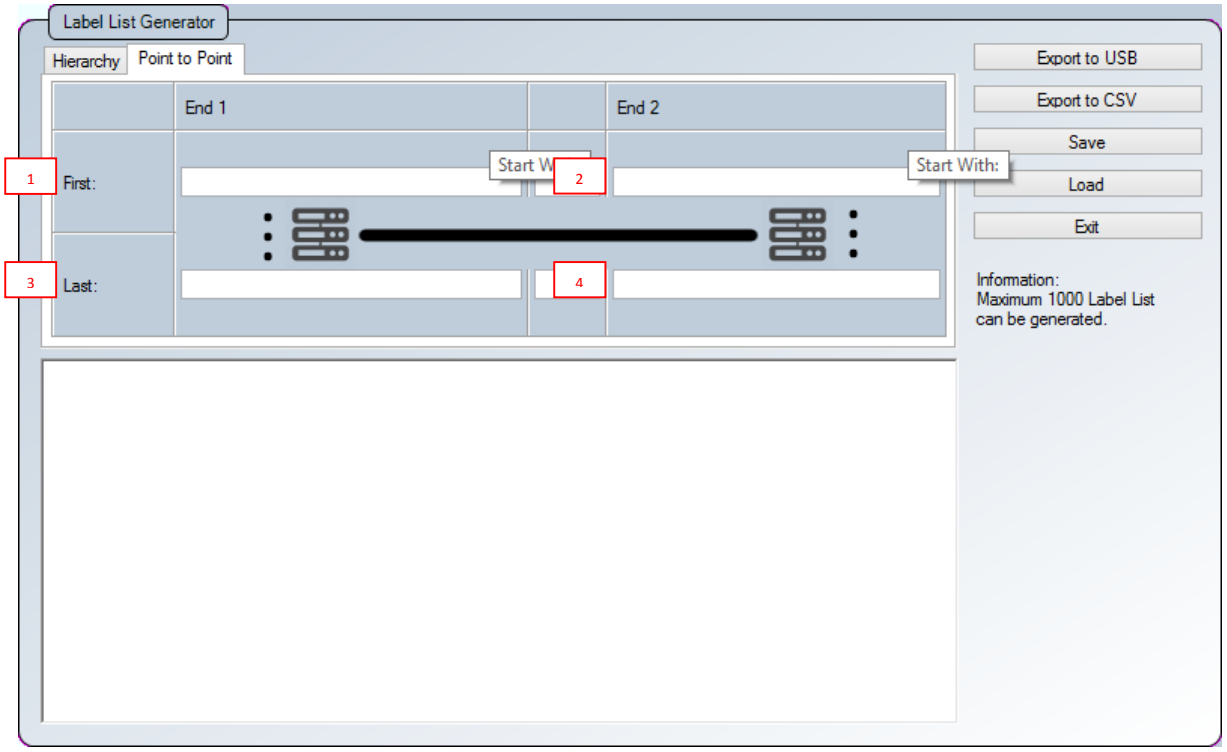
Tech Shopping Mall has 2 floors(L) with 2 Telecom Room (TR) on each floor. There are 2 Racks (R), each with 10 Panels (P), using 12 ports (p) on each panel.

Building	**Floor**		**Telecom Room**		**Rack**		**Panel**		**Port**		
MSM	L1	L2	TR1	TR2	RA	RB	P01	P10	p01	P12	
Labels Generated											
Level 1, Room 1, Rack A TSM-L1-TR1-RA-P01-p01~12 TSM-L1-TR1-RA-P02-p01~12 TSM-L1-TR1-RA-P03-p01~12 TSM-L1-TR1-RA-P04-p01~12 TSM-L1-TR1-RA-P05-p01~12 TSM-L1-TR1-RA-P06-p01~12 TSM-L1-TR1-RA-P07-p01~12 TSM-L1-TR1-RA-P08-p01~12 TSM-L1-TR1-RA-P09-p01~12 TSM-L1-TR1-RA-P10-p01~12	**Level 1, Room 1, Rack B** TSM-L1-TR1-RB-P01-p01~12 TSM-L1-TR1-RB-P02-p01~12 TSM-L1-TR1-RB-P03-p01~12 TSM-L1-TR1-RB-P04-p01~12 TSM-L1-TR1-RB-P05-p01~12 TSM-L1-TR1-RB-P06-p01~12 TSM-L1-TR1-RB-P07-p01~12 TSM-L1-TR1-RB-P08-p01~12 TSM-L1-TR1-RB-P09-p01~12 TSM-L1-TR1-RB-P10-p01~12	**Level 1, Room 2, Rack A** TSM-L1-TR2-RA-P01-p01~12 TSM-L1-TR2-RA-P02-p01~12 TSM-L1-TR2-RA-P03-p01~12 TSM-L1-TR2-RA-P04-p01~12 TSM-L1-TR2-RA-P05-p01~12 TSM-L1-TR2-RA-P06-p01~12 TSM-L1-TR2-RA-P07-p01~12 TSM-L1-TR2-RA-P08-p01~12 TSM-L1-TR2-RA-P09-p01~12 TSM-L1-TR2-RA-P10-p01~12	**Level 1, Room 2, Rack B** TSM-L1-TR2-RB-P01-p01~12 TSM-L1-TR2-RB-P02-p01~12 TSM-L1-TR2-RB-P03-p01~12 TSM-L1-TR2-RB-P04-p01~12 TSM-L1-TR2-RB-P05-p01~12 TSM-L1-TR2-RB-P06-p01~12 TSM-L1-TR2-RB-P07-p01~12 TSM-L1-TR2-RB-P08-p01~12 TSM-L1-TR2-RB-P09-p01~12 TSM-L1-TR2-RB-P10-p01~12
Level 2, Room 1, Rack A TSM-L2-TR1-RA-P01-p01~12 TSM-L2-TR1-RA-P02-p01~12 TSM-L2-TR1-RA-P03-p01~12 TSM-L2-TR1-RA-P04-p01~12 TSM-L2-TR1-RA-P05-p01~12 TSM-L2-TR1-RA-P06-p01~12 TSM-L2-TR1-RA-P07-p01~12 TSM-L2-TR1-RA-P08-p01~12 TSM-L2-TR1-RA-P09-p01~12 TSM-L2-TR1-RA-P10-p01~12	**Level 2, Room 1, Rack B** TSM-L2-TR1-RB-P01-p01~12 TSM-L2-TR1-RB-P02-p01~12 TSM-L2-TR1-RB-P03-p01~12 TSM-L2-TR1-RB-P04-p01~12 TSM-L2-TR1-RB-P05-p01~12 TSM-L2-TR1-RB-P06-p01~12 TSM-L2-TR1-RB-P07-p01~12 TSM-L2-TR1-RB-P08-p01~12 TSM-L2-TR1-RB-P09-p01~12 TSM-L2-TR1-RB-P10-p01~12	**Level 2, Room 2, Rack A** TSM-L2-TR2-RA-P01-p01~12 TSM-L2-TR2-RA-P02-p01~12 TSM-L2-TR2-RA-P03-p01~12 TSM-L2-TR2-RA-P04-p01~12 TSM-L2-TR2-RA-P05-p01~12 TSM-L2-TR2-RA-P06-p01~12 TSM-L2-TR2-RA-P07-p01~12 TSM-L2-TR2-RA-P08-p01~12 TSM-L2-TR2-RA-P09-p01~12 TSM-L2-TR2-RA-P10-p01~12	**Level 2, Room 2, Rack B** TSM-L2-TR2-RB-P01-p01~12 TSM-L2-TR2-RB-P02-p01~12 TSM-L2-TR2-RB-P03-p01~12 TSM-L2-TR2-RB-P04-p01~12 TSM-L2-TR2-RB-P05-p01~12 TSM-L2-TR2-RB-P06-p01~12 TSM-L2-TR2-RB-P07-p01~12 TSM-L2-TR2-RB-P08-p01~12 TSM-L2-TR2-RB-P09-p01~12 TSM-L2-TR2-RB-P10-p01~12
Total number of labels generated											960



Point to Point

The Point-to-Point label generator creates labels for straight forward connections from Point A to Point B such as Backbone or connections terminations between two panels.



1. First End 1 – The end of the first cable in the list.
2. First End 2 – The other end of the first cable.
3. Last End 1 – The end of the last cable in the list.
4. Last End 2 – the other end of the cable in the list.

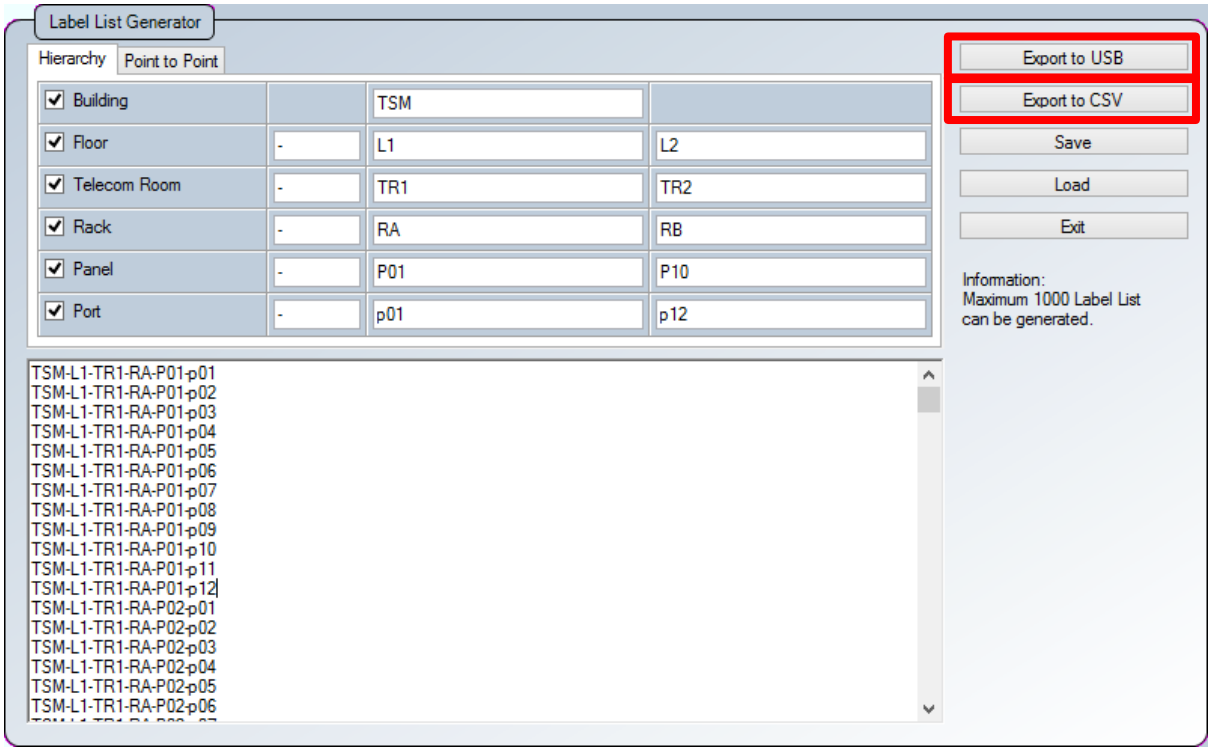
Note: Only alphanumeric and ASCII characters are supported for List-Based Testing.

Chapter 3: Porting the List

Exporting the List

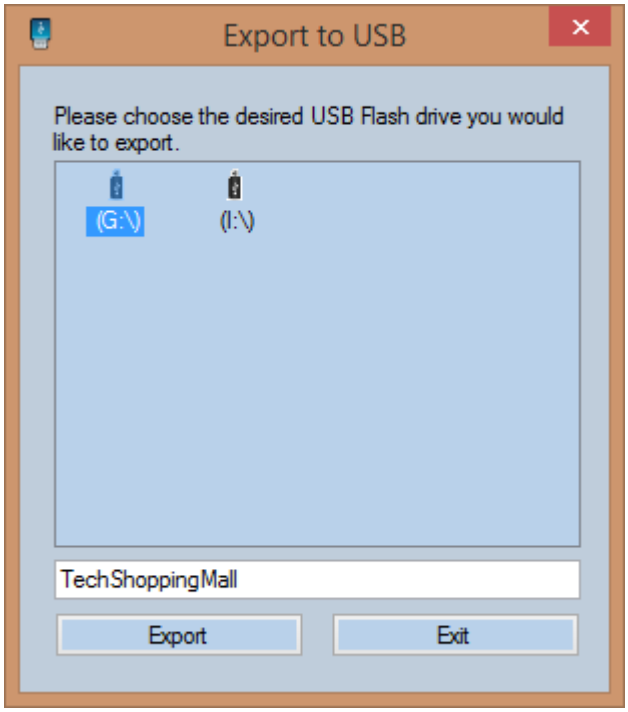
1. Click the “Export to USB” button to export completed list to USB flash drive.

   Click the “Export to CSV” button to export to *.CSV format.

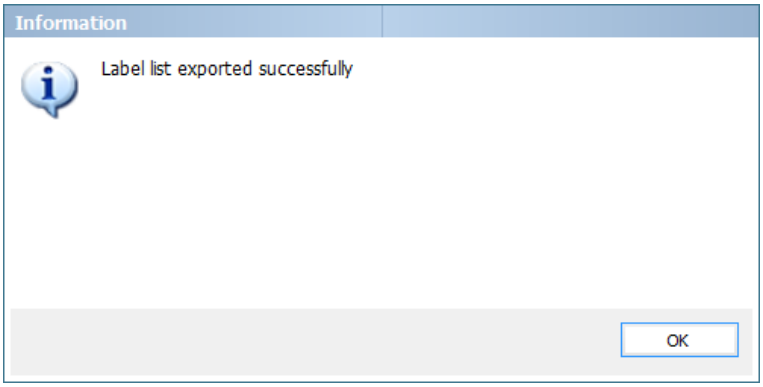


2. Enter filename and select the USB flash drive to export LBT file to.

   Click the “Export” button to proceed.



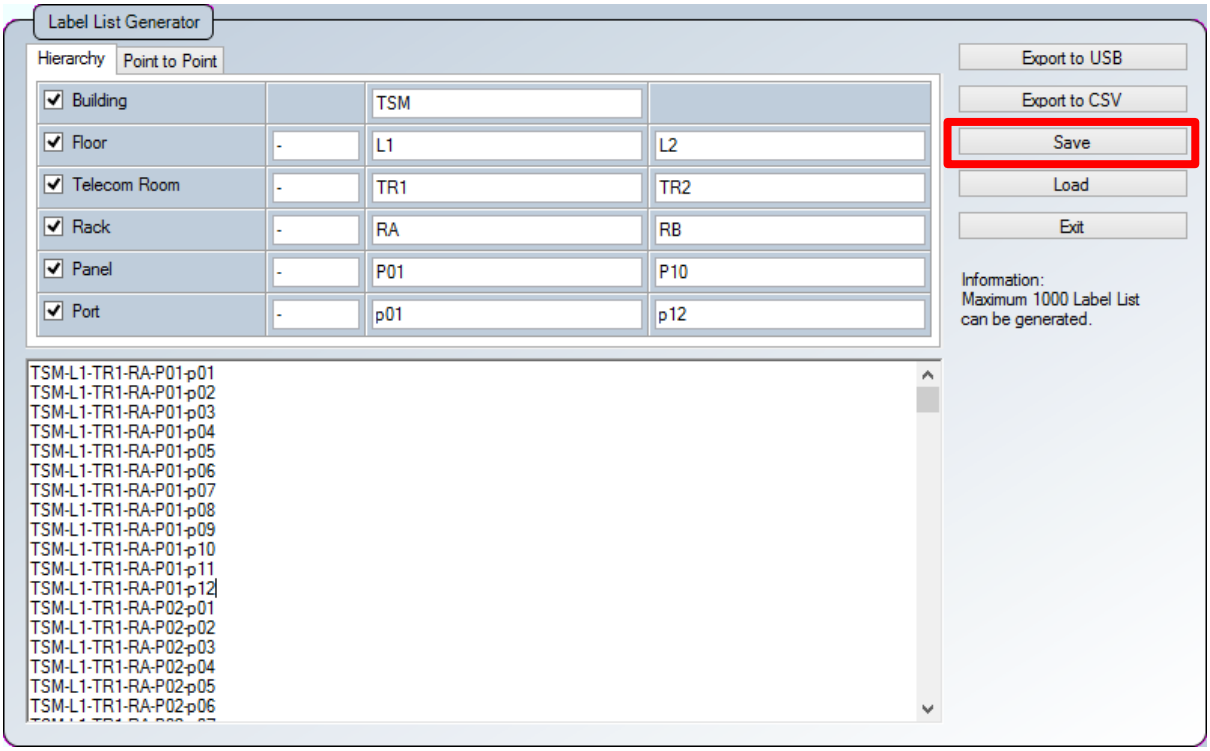
3. You will be informed when export is completed.



Note: You are recommended to save your List Based Testing file before exporting.

Saving the List

1. Click the “Save” button to save the completed list. Incomplete list can also be saved for later completion.

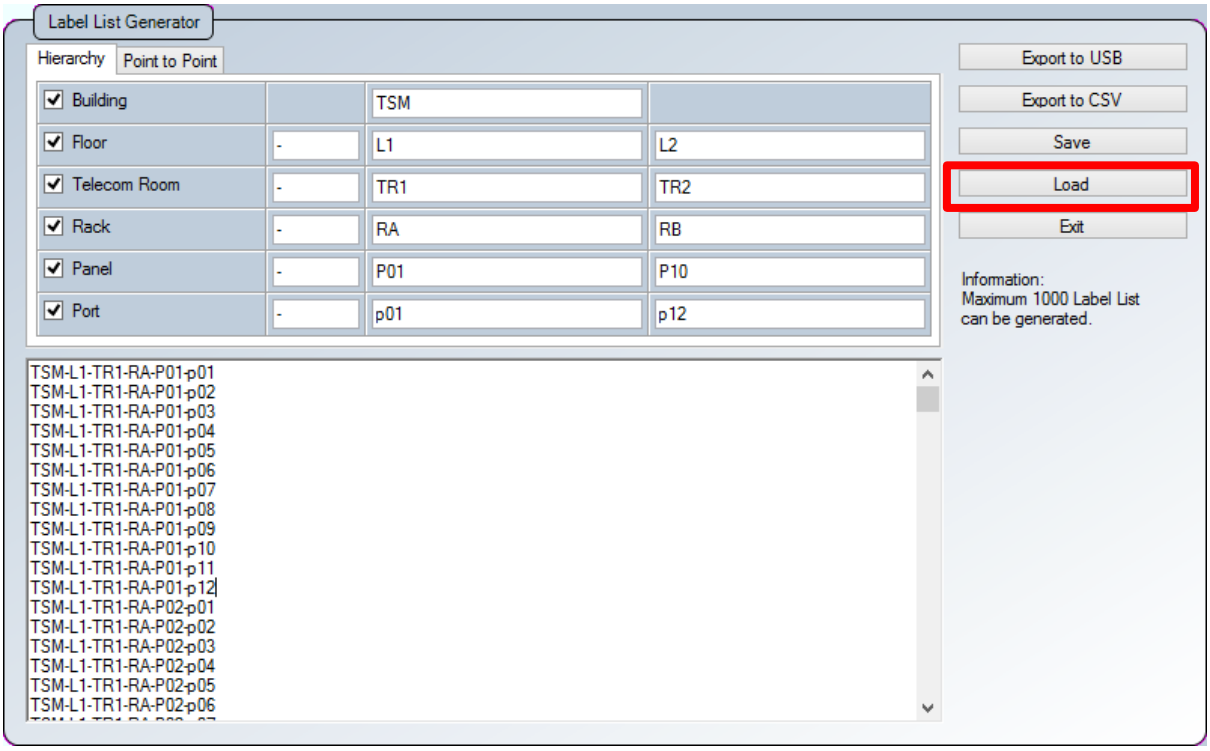


2. Select directory and click the “Save” button to proceed.

   Click on the Site name to display test results saved within the site.

Loading the List

1. Click the “Load” button to load a previously saved LBT file.



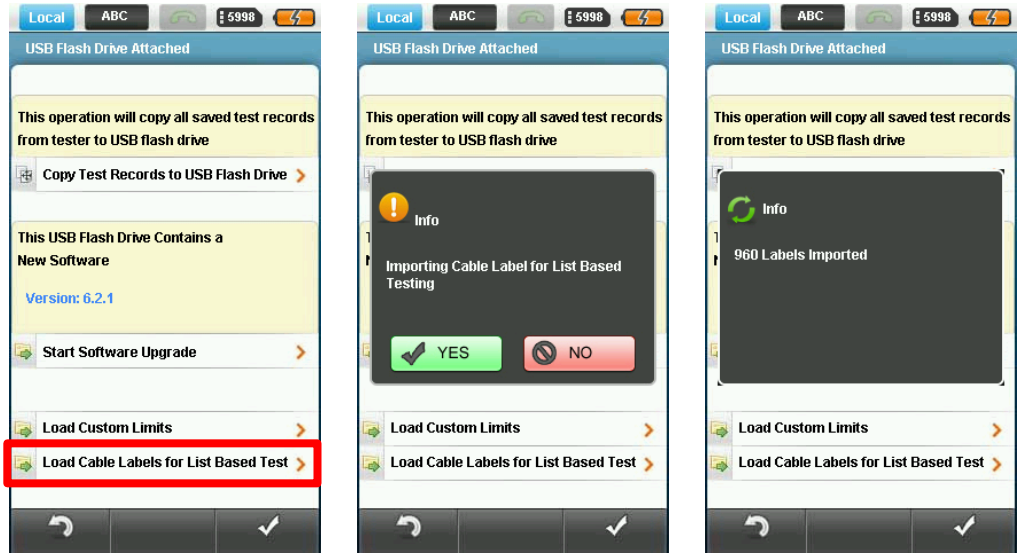
2. Loading a saved LBT file enables amendment or completion to the list.
3. Click the “Save” button to save the updated file.

Importing the List

1. Power on WireXpert.
2. Insert the USB flash drive the LBT file is exported to onto the Local unit of WireXpert.
3. WireXpert will automatically detect the USB flash drive.

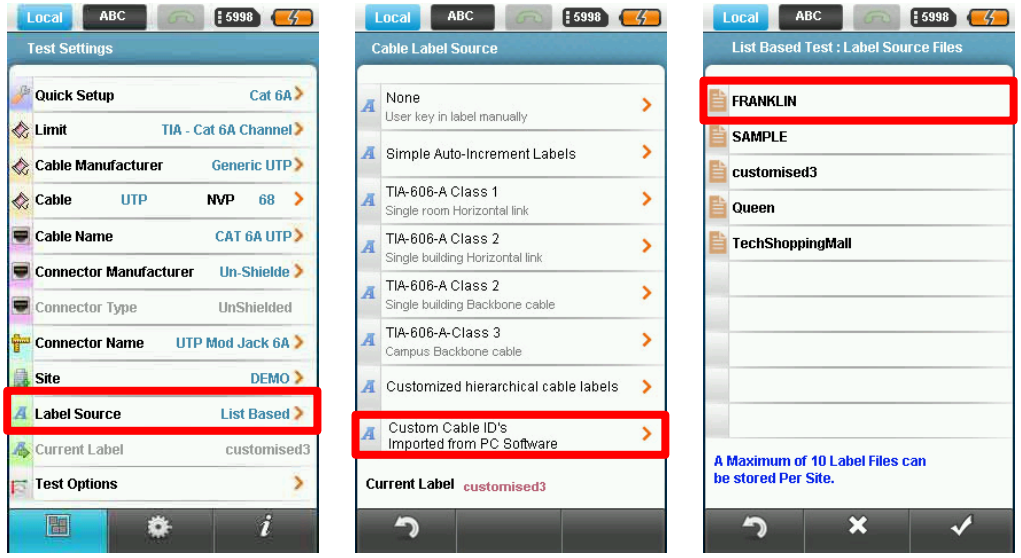
   Select “Load Cable Labels for List Based Testing”.

   Press “Yes” to proceed.


Local
ABC
5998
USB Flash Drive Attached
This operation will copy all saved test records from tester to USB flash drive
Copy Test Records to USB Flash Drive
This USB Flash Drive Contains a New Software
Version: 6.2.1
Start Software Upgrade
Load Custom Limits
Load Cable Labels for List Based Test
Info
Importing Cable Label for List Based Testing
YES
NO
960 Labels Imported

4. Press the SETUP button > Test Settings > Label Source

   Select “Custom Cable ID’s Imported from PC Software” and select the LBT file that has just been imported.

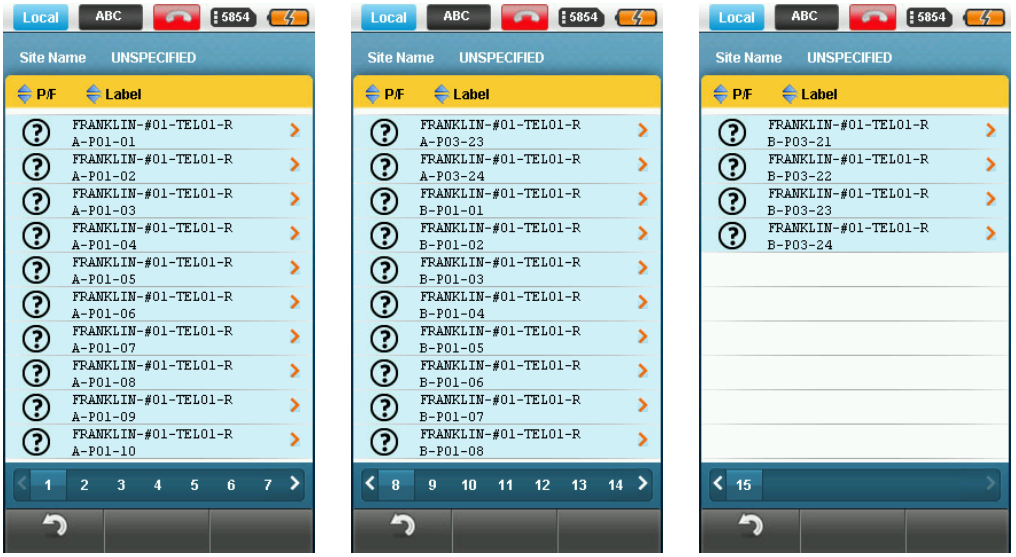


Note: Please ensure you have selected the Site to apply LBT before importing.

Chapter 4: List-Based Testing

Performing the Test

1. Press the AUTOTEST button to load the list. WireXpert will display 10 labels in hierarchical order per page.



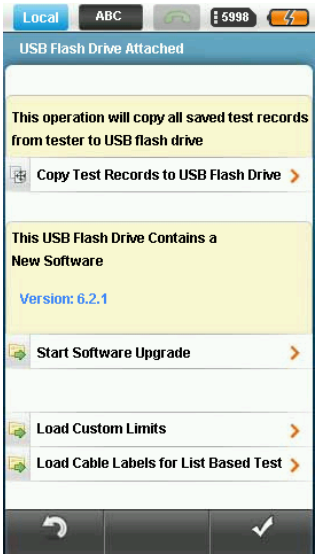
2. Select label from list to perform AUTOTEST.
3. WireXpert will automatically save a PASS result and return to the list, or allows you to save or conduct a re-test for a FAIL result manually.
4. Press the AUTOTEST button to return to the label list.
5. Select a tested label to view the results. A tick indicates a PASS and a cross indicates a FAIL result. A re-test can be conducted by pressing “Retest”.

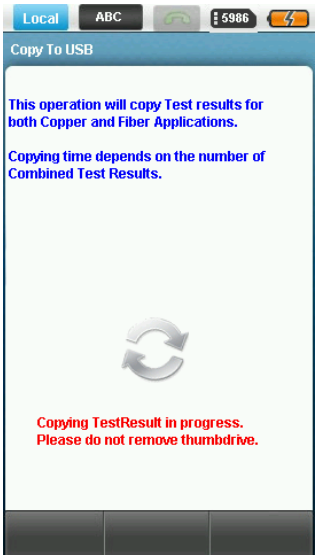
6. Press the “cancel” or AUTOTEST button to return to the label list.

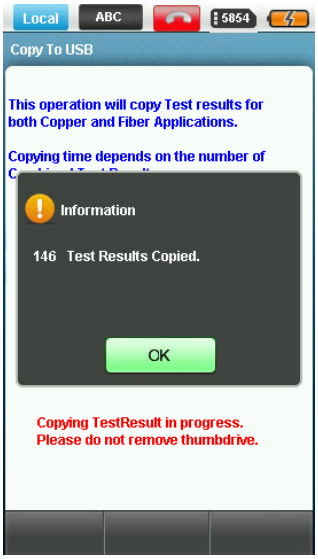
Viewing the List Based Testing Results

1. Insert the USB flash drive onto the Local unit of WireXpert.
2. WireXpert will automatically detect the USB flash drive.

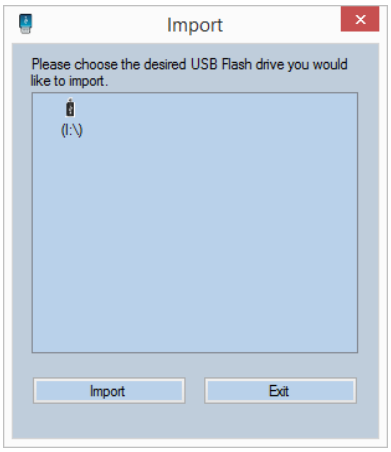
   Select “Copy Test Results to USB Flash Drive”.


Local
ABC
5998
USB Flash Drive Attached
This operation will copy all saved test records from tester to USB flash drive
Copy Test Records to USB Flash Drive
This USB Flash Drive Contains a New Software
Version: 6.2.1
Start Software Upgrade
Load Custom Limits
Load Cable Labels for List Based Test

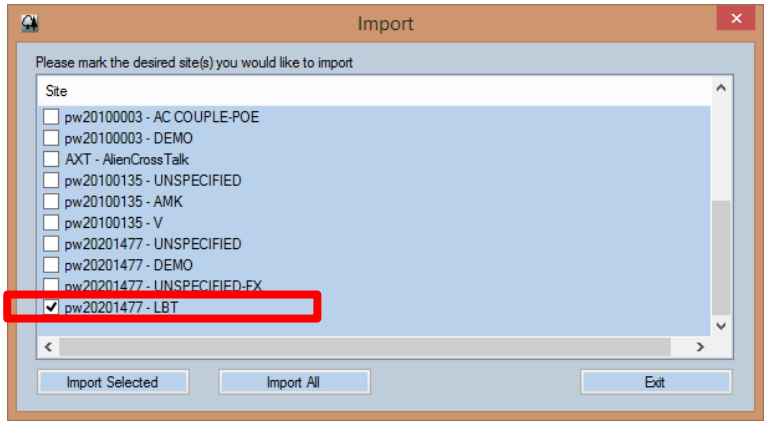

Local
ABC
5986
Copy To USB
This operation will copy Test results for both Copper and Fiber Applications.
Copying time depends on the number of Combined Test Results.
Copying TestResult in progress.
Please do not remove thumbdrive.



1. Insert the same USB flash drive to your workstation and launc eXport software.
2. Go to Import > Device or click the “USB Flash Drive” icon.
3. Select the Drive you wish to import the Test Result from. Click “Import” to proceed.

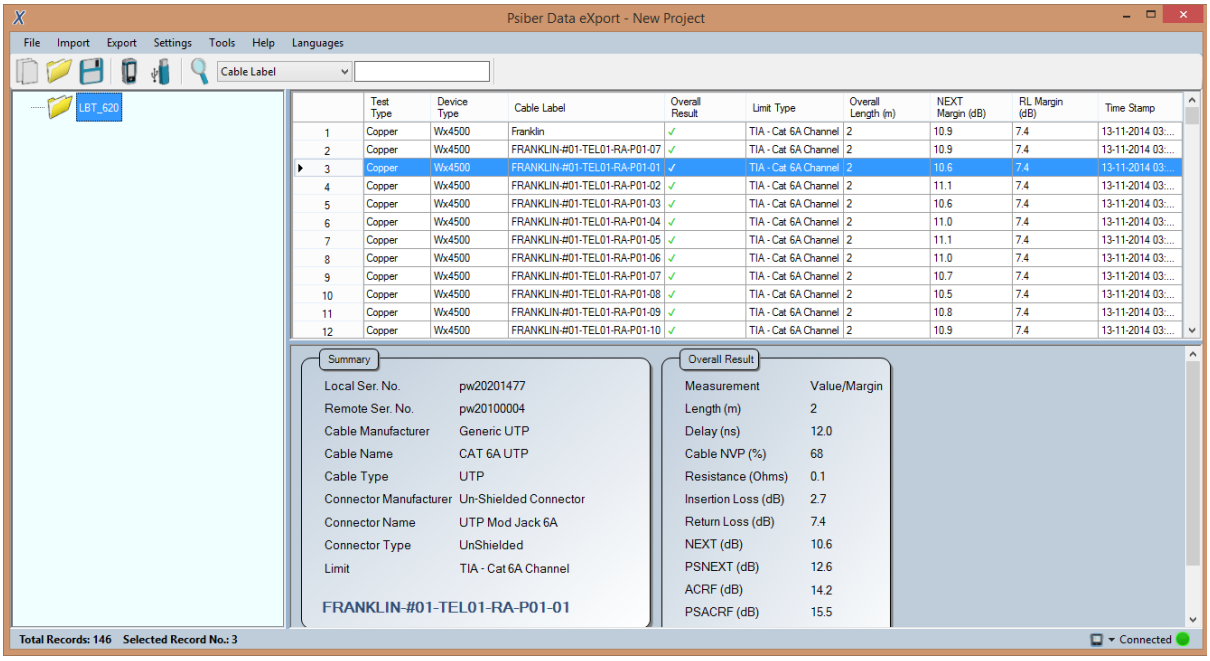


4. Select the site with the save LBT data and click “Import Selected”.



5. Status bar will indicate “Transferring” during the import.

6. eXport will load the imported LBT file in hierarchical order once completed.


Psiber Data eXport - New Project
File Import Export Settings Tools Help Languages
Cable Label
LBT_620
Test Type | Device Type | Cable Label | Overall Result | Limit Type | Overall Length (m) | NEXT Margin (dB) | RL Margin (dB) | Time Stamp
1 Copper Wx4500 Franklin ✓ TIA - Cat 6A Channel 2 10.9 7.4 13-11-2014 03:...
2 Copper Wx4500 FRANKLIN-#01-TEL01-RA-P01-07 ✓ TIA - Cat 6A Channel 2 10.9 7.4 13-11-2014 03:...
3 Copper Wx4500 FRANKLIN-#01-TEL01-RA-P01-01 ✓ TIA - Cat 6A Channel 2 10.6 7.4 13-11-2014 03:...
4 Copper Wx4500 FRANKLIN-#01-TEL01-RA-P01-02 ✓ TIA - Cat 6A Channel 2 11.1 7.4 13-11-2014 03:...
5 Copper Wx4500 FRANKLIN-#01-TEL01-RA-P01-03 ✓ TIA - Cat 6A Channel 2 10.6 7.4 13-11-2014 03:...
6 Copper Wx4500 FRANKLIN-#01-TEL01-RA-P01-04 ✓ TIA - Cat 6A Channel 2 11.0 7.4 13-11-2014 03:...
7 Copper Wx4500 FRANKLIN-#01-TEL01-RA-P01-05 ✓ TIA - Cat 6A Channel 2 11.1 7.4 13-11-2014 03:...
8 Copper Wx4500 FRANKLIN-#01-TEL01-RA-P01-06 ✓ TIA - Cat 6A Channel 2 11.0 7.4 13-11-2014 03:...
9 Copper Wx4500 FRANKLIN-#01-TEL01-RA-P01-07 ✓ TIA - Cat 6A Channel 2 10.7 7.4 13-11-2014 03:...
10 Copper Wx4500 FRANKLIN-#01-TEL01-RA-P01-08 ✓ TIA - Cat 6A Channel 2 10.5 7.4 13-11-2014 03:...
11 Copper Wx4500 FRANKLIN-#01-TEL01-RA-P01-09 ✓ TIA - Cat 6A Channel 2 10.8 7.4 13-11-2014 03:...
12 Copper Wx4500 FRANKLIN-#01-TEL01-RA-P01-10 ✓ TIA - Cat 6A Channel 2 10.9 7.4 13-11-2014 03:...
Summary
Local Ser. No. pw20201477
Remote Ser. No. pw20100004
Cable Manufacturer Generic UTP
Cable Name CAT 6A UTP
Cable Type UTP
Connector Manufacturer Un-Shielded Connector
Connector Name UTP Mod Jack 6A
Connector Type UnShielded
Limit TIA - Cat 6A Channel
FRANKLIN-#01-TEL01-RA-P01-01
Overall Result
Measurement Value/Margin
Length (m) 2
Delay (ns) 12.0
Cable NVP (%) 68
Resistance (Ohms) 0.1
Insertion Loss (dB) 2.7
Return Loss (dB) 7.4
NEXT (dB) 10.6
PSNEXT (dB) 12.6
ACRF (dB) 14.2
PSACRF (dB) 15.5
Total Records: 146 Selected Record No.: 3
Connected